



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

400-560

Date of Issuance:

9/20/2017

NOTICE OF PESTICIDE:
Registration

X Reregistration

(under FIFRA, as amended)

Term of Issuance:

See below

Name of Pesticide Product:

KERNEL GUARD SUPREME

Name and Address of Registrant (include ZIP Code):

Robyn Clark
MacDermid Agricultural Solutions, Inc.
c/o Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby reregistered under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on her/his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

All requirements set forth in the Reregistration Eligibility Decision for Permethrin and Carboxin have been satisfied. Therefore, EPA reregisters the product listed above. This action is taken under the authority of section 4(g)(2)(c) of FIFRA, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

Specifically, registration review has begun for carboxin and you are required to comply with the data requirements described in the DCI identified below:

1. Carboxin GDCI-090201-1538

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: <http://iaspub.epa.gov/apex/pesticides/f?p=chemicalsearch:1>

Submit one (1) copy of final printed labeling. Amended labeling will supersede all previously accepted labels. A copy of your label stamped "Accepted" is enclosed for your records. Products shipped after 12 months from the date of this Notice or the next printing of your label, whichever occurs first, must bear the new revised label.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 08/18/2011
- Alternate CSF 1 dated 06/19/2012

If you have any questions, please contact Maggie Rudick by phone at 703-347-0257, or via email at rudick.maggie@epa.gov.

Signature of Approving Official:



Michael Wagman, Acting Product Manager 4
Invertebrates & Vertebrates Branch 1
Registration Division (7505P)

Date:

9/20/2017

EPA Form 8570-6

Enclosure: *Label Amendment Letter*
 Stamped Approved Label



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460**

**OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION**

September 20, 2017

Robyn Clark
MacDermid Agricultural Solutions, Inc.
c/o Arysta LifeScience North America, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

Subject: Label Amendment – Revisions to Comply with Re-Reregistration Requirements
Product Name: KERNEL GUARD SUPREME
EPA Registration Number: 400-560
Application Date: August 17, 2017
Decision Number: 530447

Dear Ms. Clark:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Maggie Rudick by phone at 703-347-0257, or via email at rudick.maggie@epa.gov.

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EPA Reg. No. 400-560
Decision No. 530447

Sincerely

A handwritten signature in blue ink, appearing to read 'MW', is enclosed in a rectangular box.

Michael Wagman, Acting Product Manager 4
Invertebrate and Vertebrate Branch 1
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

09/20/2017

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 400-560

Kernel Guard[®] Supreme

VITAVAX[®] - PERMETHRIN

For the protection of Seeds and Seedlings of Field Corn, Sweet Corn, Popcorn and Soybeans against *Rhizoctonia* Damping-Off, Seed Decay, and Seedling Blight; also against Seed Corn Beetle, Seed Corn Maggots and Wireworms.

ACTIVE INGREDIENTS:

permethrin (cis/trans ratio: Max. 55% (±) cis and Min. 45% (±) trans)*10.42%
carboxin (5,6-dihydro-2-methyl-N-phenyl-1,4 oxathiin-3-carboxamide)14.00%

OTHER INGREDIENTS:75.58%

TOTAL:100.00%

*(3-Phenoxyphenyl)methyl(±)cis-trans 3-(2,2-dichloroethenyl)-2,2 dimethylcyclopropanecarboxylate

KEEP OUT OF REACH OF CHILDREN

CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See [back][side] Panel for First Aid Instructions and [Leaflet][Booklet] for Complete Precautionary Statements and Directions for Use.

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF IN EYES:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 -20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15–20 minutes. • Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p> <p>FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL PROPHARMA: 1-866-303-6952 or +1-651-603-3432.</p> <p>FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.</p>	

For Product Use Information Call 1-866-761-9397

EPA Reg. No. 400-560

EPA Est. No.

xxxxxxV007

NET CONTENTS:

[Batch Code will be placed on the container.]

Produced For:

MacDermid Agricultural Solutions, Inc.
c/o ARYSTA LIFESCIENCE NORTH AMERICA, LLC
15401 Weston Parkway, Suite 150
Cary, NC 27513

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Do not get in eyes, on skin or on clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are made of any waterproof material.

All Loaders, Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves made of any waterproof material (barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, natural rubber including natural rubber blends and laminates \geq 14 mils, polyethylene, polyvinyl chloride (PVC) \geq 14 mils, and/or viton \geq 14 mils);
- Shoes plus socks; and
- A chemical-resistant apron.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands thoroughly after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then, wash thoroughly and change into clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing them. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is **extremely toxic to aquatic organisms, including fish and invertebrates**. Do not apply to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate or by disposal of wastes. Treated seed exposed on soil surface may be hazardous to birds. Cover or collect spilled seeds.

Under some conditions, this chemical may have a high potential for runoff into surface water (primarily in runoff events accompanied by erosion), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and areas overlying extremely shallow groundwater, areas within field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.

Endangered Species

This product may have effects on federally listed, threatened, or endangered species, or their critical habitat in some counties. It is a violation of federal law to kill, harm, or harass listed animal species without authorization. To limit the potential for such impacts when using this product, consult and follow the instructions provided in the EPA Endangered Species Bulletin for the County or Parish in which you are applying the treated seed. To determine whether your County or Parish has a Bulletin, consult <http://www.epa.gov/espp> before each season's use of this product.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the **restricted entry interval (REI) of 12 hours**.

Exception: Once the seeds are planted in soil, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area without restriction if there will be no worker contact with the soil/media subsurface. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical-resistant gloves made of any waterproof material (barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, natural rubber including natural rubber blends and laminates \geq 14 mils, polyethylene, polyvinyl chloride (PVC) \geq 14 mils, and/or viton \geq 14 mils), and shoes plus socks.

PRODUCT INFORMATION

KERNEL GUARD® SUPREME is a planter box or hopper box seed treatment for on-farm use only on field corn, sweet corn, popcorn and soybeans immediately before planting. It provides protectant activity only against certain insects (seed corn beetles, seed corn maggots, wireworms) and has no systemic control. Its insecticide activity is by the contact and ingestion routes generally associated with pyrethroids.

KERNEL GUARD SUPREME may be used on seed previously treated with a full dosage of a protectant fungicide, to give added protection against Rhizoctonia seedling blight, damping-off and seed decay.

Use **KERNEL GUARD SUPREME** only on those seeds needed for immediate use, minimizing the time between treatment and planting. DO NOT bag or store excess treated seed beyond planting time. Treated seeds must not be used for or mixed with food or animal feed or processed for oil.

NOTE – Adjust the seed drill or planter to give the required rate of seed delivery with treated seed. Regularly inspect planter plates and clean as required. At the end of each day, clean out the electric eye monitors as directed by the manufacturer.

RATES

Use only at the specified rate. Lower amounts may not give desired control. Excessive amounts may cause seed or seedling injury.

Field Corn, Sweet Corn, Popcorn: (1.5 oz canister) Use at a rate of one canister per 42 lbs of seed. **(4 lb Pail)** (Measuring Scoop Enclosed). Use two full scoops (1.5 oz) per 42 lbs of seed.

Soybeans: (1.5 oz canister) Use one canister (1.5 oz) per 50 lbs of seed. **(4 lb pail)** Use two full scoops (1.5 oz) per 50 lbs of seed.

MIXING INSTRUCTIONS: (1.5 oz canister) Apply **KERNEL GUARD SUPREME** to seed at planting time with the canister applicator tube system. For best results, fill the planter box with seed, add **KERNEL GUARD SUPREME** through applicator tube and mix so that all seeds are covered.

(4 lb Pail) For best results, fill planter box only half full of seed, add half the required amount of **KERNEL GUARD SUPREME**, and mix thoroughly with a stick or paddle. Add the remainder of the seed and **KERNEL GUARD SUPREME**, and mix again so that all seed are covered.

Mix with a stick or paddle so that all seeds are covered. **DO NOT MIX WITH BARE HANDS.**

USE RESTRICTIONS

- When using formulations that do not contain dye, to comply with 40 CFR 153.155, all seed treated with an economic poison must be colored to distinguish and prevent subsequent inadvertent use as a food for man or feed for animals.
- Treated seed must not be used for or mixed with food or animal feed, or processed for oil.
- Not for use by commercial seed treatment establishments.
- Treat only those seed needed for immediate use, minimizing the interval between treatment and planting.
- **DO NOT** store excess treated seed beyond planting time.
- **DO NOT** graze or feed livestock on treated areas for six weeks after planting.
- **DO NOT** water the treated area to the point of run-off.

ROTATIONAL CROPS

Treated areas may be replanted with field corn, sweet corn, popcorn or soybeans immediately. For all other crops, the plant- back interval is 60 days.

SEED CONTAINER LABEL REQUIREMENTS

The Federal Seed Act requires that containers containing treated seeds shall be labeled with the following statements:

- This seed has been treated with permethrin (an insecticide) and carboxin (a fungicide).
- Do not use treated seed for feed, food or oil purposes.

The U.S. Environmental Protection Agency requires the following statements on containers containing seed treated with permethrin (an insecticide) and carboxin (a fungicide):

- Store treated seed away from food and feedstuffs.
- When opening this bag or loading/pouring the treated seed/seed-pieces, wear long sleeved shirt, long pants, shoes, socks, chemical-resistant gloves,
- Forage must not be grazed until 6 weeks after planting.
- Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by-products that are used in agronomic practice.
- Treated seeds exposed on soil surface may be hazardous to wildlife. Cover or collect treated seeds spilled during loading and planting.
- Dispose of all excess treated seed by burying seed away from bodies of water.
- Do not contaminate water bodies when disposing of planting equipment wash waters.
- Treated seed must be planted into the soil at a depth of greater than 1 inch.
- Do not allow children, pets or livestock to have access to treated seeds.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

PESTICIDE STORAGE: Store in original container only. After partial use, replace lid and close tightly. Store in a secure place that is temperate, dry and out of direct sunlight. Avoid excessive heat.

PESTICIDE DISPOSAL: Wastes from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING:

Nonrefillable Container

Plastic Container: Do not reuse or refill this container. Completely empty container by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of empty container in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Offer for recycling, if available.

Warranty and Disclaimer Statement

The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of MacDermid Agricultural Solutions, Inc. ("MacDermid"), and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer.

MacDermid warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to MacDermid, and is subject to the inherent risks described above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MACDERMID DISCLAIMS ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MACDERMID, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF MACDERMID IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF MACDERMID, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT MACDERMID'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

Treatment of highly mechanically damaged seed, or seed known to be of low vigor and poor quality, except for the purpose of curative control of existing disease pests, may result in reduced germination and/or reduction of seed and seedling vigor. Since this product is designed for treating just prior to planting, MacDermid makes no claims or guarantees as to germination of carry over seed.

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